

1636



#22

1600

RAW SEQUENCE LISTING

DATE: 01/21/2003

PATENT APPLICATION: US/09/396,539C

TIME: 16:08:53

Input Set : A:\7682-048 SEQ LISTING.TXT

Output Set: N:\CRF4\01212003\I396539C.raw

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TECH CENTER 1600/2900

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4 <110> APPLICANT: Palese, Peter
5   Garcia-Sastre, Adolfo
7 <120> TITLE OF INVENTION: RECOMBINANT NEGATIVE STRAND RNA VIRUS
8   EXPRESSION SYSTEMS AND VACCINES
11 <130> FILE REFERENCE: 7682-048
13 <140> CURRENT APPLICATION NUMBER: 09/396,539C
14 <141> CURRENT FILING DATE: 1999-09-14
16 <150> PRIOR APPLICATION NUMBER: 09/106,377
17 <151> PRIOR FILING DATE: 1998-06-29
19 <150> PRIOR APPLICATION NUMBER: 08/252,508
20 <151> PRIOR FILING DATE: 1994-06-01
22 <160> NUMBER OF SEQ ID NOS: 63
24 <170> SOFTWARE: FastSEQ for Windows Version 4.0
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 21
28 <212> TYPE: DNA
29 <213> ORGANISM: Artificial Sequence
31 <220> FEATURE:
32 <223> OTHER INFORMATION: Primer for rescue of the mutant NA gene into virus particles
34 <400> SEQUENCE: 1
35 tacgaggaaa tggtcctgtt a                                21
37 <210> SEQ ID NO: 2
38 <211> LENGTH: 19
39 <212> TYPE: PRT
40 <213> ORGANISM: Influenza virus
42 <400> SEQUENCE: 2
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45 Val Leu Ser
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50 <211> LENGTH: 16
51 <212> TYPE: PRT
52 <213> ORGANISM: Influenza virus
54 <220> FEATURE:
55 <223> OTHER INFORMATION: epitope within the NP protein
57 <400> SEQUENCE: 3
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59 1           5           10           15
62 <210> SEQ ID NO: 4
63 <211> LENGTH: 95
64 <212> TYPE: DNA
65 <213> ORGANISM: Artificial Sequence
67 <220> FEATURE:

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68 <223> OTHER INFORMATION: Primer for construction of plasmid pV-wt
70 <400> SEQUENCE: 4
71 gaagcttaat acgactcact ataagtagaa acaagggtgt tttttcatat catttaaact 60
72 tcaccctgct tttgctgaat tcattcttct gcagg 95
74 <210> SEQ ID NO: 5
75 <211> LENGTH: 95
76 <212> TYPE: DNA
77 <213> ORGANISM: Artificial Sequence
79 <220> FEATURE:
80 <223> OTHER INFORMATION: Primer for construction of plasmid pM-wt
82 <400> SEQUENCE: 5
83 gaagcttaat acgactcact ataagcaaaa gcagggtgaa gtttaaata ga tatgaaaaaa 60
84 cacccttggt tctactgaat tcattcttct gcagg 95
86 <210> SEQ ID NO: 6
87 <211> LENGTH: 68
88 <212> TYPE: DNA
89 <213> ORGANISM: Artificial Sequence
91 <220> FEATURE:
92 <223> OTHER INFORMATION: Primer for construction of plasmid pV-d5'
94 <400> SEQUENCE: 6
95 agcttaatac gactcactat aagatctatt aaacttcacc ctgcttttgc tgaattcatt 60
96 cttctgca 68
98 <210> SEQ ID NO: 7
99 <211> LENGTH: 60
100 <212> TYPE: DNA
101 <213> ORGANISM: Artificial Sequence
103 <220> FEATURE:
104 <223> OTHER INFORMATION: Primer for construction of plasmid pV-d5'
106 <400> SEQUENCE: 7
107 gaagaatgaa ttcagcaaaa gcagggtgaa gtttaataga tcttatagtg agtcgtatta 60
110 <210> SEQ ID NO: 8
111 <211> LENGTH: 42
112 <212> TYPE: DNA
113 <213> ORGANISM: Artificial Sequence
115 <220> FEATURE:
116 <223> OTHER INFORMATION: Primer for construction of plasmid pHgaNS
118 <400> SEQUENCE: 8
119 ccgaattctt aatacgactc actataagta gaaacaaggg tg 42
121 <210> SEQ ID NO: 9
122 <211> LENGTH: 30
123 <212> TYPE: DNA
124 <213> ORGANISM: Artificial Sequence
126 <220> FEATURE:
127 <223> OTHER INFORMATION: Primer for construction of plasmid pHgaNS
129 <400> SEQUENCE: 9
130 cctctagacg ctcgagagca aaagcaggtg 30
132 <210> SEQ ID NO: 10
133 <211> LENGTH: 15
134 <212> TYPE: RNA

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137 <220> FEATURE:
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143 <210> SEQ ID NO: 11
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146 <213> ORGANISM: Artificial Sequence
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149 <223> OTHER INFORMATION: Primer for generating point mutations in promoter sequence
151 <400> SEQUENCE: 11
152 caccugcuu uuacu 15
154 <210> SEQ ID NO: 12
155 <211> LENGTH: 15
156 <212> TYPE: RNA
157 <213> ORGANISM: Artificial Sequence
159 <220> FEATURE:
160 <223> OTHER INFORMATION: Primer for generating point mutations in promoter sequence
162 <400> SEQUENCE: 12
163 caccugcuu cugcu 15
165 <210> SEQ ID NO: 13
166 <211> LENGTH: 15
167 <212> TYPE: RNA
168 <213> ORGANISM: Artificial Sequence
170 <220> FEATURE:
171 <223> OTHER INFORMATION: Primer for generating point mutations in promoter sequence
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178 <212> TYPE: RNA
179 <213> ORGANISM: Artificial Sequence
181 <220> FEATURE:
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185 caccuugcu uuugcu 16
187 <210> SEQ ID NO: 15
188 <211> LENGTH: 15
189 <212> TYPE: RNA
190 <213> ORGANISM: Artificial Sequence
192 <220> FEATURE:
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198 <210> SEQ ID NO: 16
199 <211> LENGTH: 15
200 <212> TYPE: RNA
201 <213> ORGANISM: Artificial Sequence

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204 <223> OTHER INFORMATION: Primer for generating point mutations in promoter sequence

206 <400> SEQUENCE: 16

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211 <212> TYPE: RNA

212 <213> ORGANISM: Artificial Sequence

214 <220> FEATURE:

215 <223> OTHER INFORMATION: Primer for generating point mutations in promoter sequence

217 <400> SEQUENCE: 17

218 caccuugcu uuucuu 16

220 <210> SEQ ID NO: 18

221 <211> LENGTH: 16

222 <212> TYPE: RNA

223 <213> ORGANISM: Artificial Sequence

225 <220> FEATURE:

226 <223> OTHER INFORMATION: Primer for generating point mutations in promoter sequence

228 <400> SEQUENCE: 18

229 caccuuguu uuucuu 16

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232 <211> LENGTH: 16

233 <212> TYPE: RNA

234 <213> ORGANISM: Artificial Sequence

236 <220> FEATURE:

237 <223> OTHER INFORMATION: Primer for generating point mutations in promoter sequence

239 <400> SEQUENCE: 19

240 caccuuguu uucuuu 16

242 <210> SEQ ID NO: 20

243 <211> LENGTH: 96

244 <212> TYPE: DNA

245 <213> ORGANISM: Artificial Sequence

247 <220> FEATURE:

248 <223> OTHER INFORMATION: Primer

250 <400> SEQUENCE: 20

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252 tataccaccg ttgatataat ccaatcgcat cgtaaa 96

254 <210> SEQ ID NO: 21

255 <211> LENGTH: 96

256 <212> TYPE: DNA

257 <213> ORGANISM: Artificial Sequence

259 <220> FEATURE:

260 <223> OTHER INFORMATION: Primer for generating flanking sequences of NS RNA to fuse with the

261 coding sequence of the CAT gene

263 <400> SEQUENCE: 21

264 gttcttttacg atgcgattgg gatataatcaa cgggtggtata cccagtgatt tttttctcca 60

265 ttatgtcttt gtcaccctgc ttttgctgca gggcgt 96

267 <210> SEQ ID NO: 22

268 <211> LENGTH: 34

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269 <212> TYPE: DNA
 270 <213> ORGANISM: Artificial Sequence
 272 <220> FEATURE:
 273 <223> OTHER INFORMATION: Primer for generating flanking sequences of NS RNA to fuse
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 274 coding sequence of the CAT gene
 276 <400> SEQUENCE: 22
 277 actgcgatga gtggcagggc ggggcgtaat agat 34
 279 <210> SEQ ID NO: 23
 280 <211> LENGTH: 38
 281 <212> TYPE: DNA
 282 <213> ORGANISM: Artificial Sequence
 284 <220> FEATURE:
 285 <223> OTHER INFORMATION: Primer for construction of plasmid pIVACAT1
 287 <400> SEQUENCE: 23
 288 ctatgatctat tacgccccgc cctgccactc atcgcagt 38
 290 <210> SEQ ID NO: 24
 291 <211> LENGTH: 34
 292 <212> TYPE: DNA
 293 <213> ORGANISM: Artificial Sequence
 295 <220> FEATURE:
 296 <223> OTHER INFORMATION: Primer
 298 <400> SEQUENCE: 24
 299 actgcgatga gtggcagggc ggggcgtaat agat 34
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 302 <211> LENGTH: 38
 303 <212> TYPE: DNA
 304 <213> ORGANISM: Artificial Sequence
 306 <220> FEATURE:
 307 <223> OTHER INFORMATION: Primer for generating flanking sequences of NS RNA to fuse
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 308 coding sequence of the CAT gene
 310 <400> SEQUENCE: 25
 311 ctatgatctat tacgccccgc cctgccactc atcgcagt 38
 313 <210> SEQ ID NO: 26
 314 <211> LENGTH: 97
 315 <212> TYPE: DNA
 316 <213> ORGANISM: Artificial Sequence
 318 <220> FEATURE:
 319 <223> OTHER INFORMATION: Primer for construction of plasmid pIVACAT1
 321 <400> SEQUENCE: 26
 322 ctacacgccc tgcagcaaaa gcagggtgac aaagacataa tggagaaaaa aaatcactgg 60
 323 gtataccacc gttgatatat cccaatcgca tcgtaaa 97
 325 <210> SEQ ID NO: 27
 326 <211> LENGTH: 96
 327 <212> TYPE: DNA
 328 <213> ORGANISM: Artificial Sequence
 330 <220> FEATURE:
 331 <223> OTHER INFORMATION: Primer for construction of plasmid pIVACAT1
 333 <400> SEQUENCE: 27
 334 gttctttacg atgcgattgg gatatatcaa cgggtggata cccagtgatt tttttctcca 60

VERIFICATION SUMMARY

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